

<b>Position title</b>	Equipment Maintenance Technician L2
<b>Reporting to</b>	
<b>Department/Section</b>	

### **Purpose of the position**

The Equipment Maintenance Technician L2 is responsible for standard troubleshooting, preventive maintenance, component replacement, calibration, electrical/mechanical abnormality handling, and basic automation system diagnosis for automated production equipment. This role supports equipment uptime, MTTR reduction, and stable sustaining operation. L2 activities must be performed based on vendor-approved SOPs, training, certification, and authorized tools/software access.

### **Duties and Responsibilities**

- Execute weekly/monthly preventive maintenance plans and component life-cycle maintenance.
- Troubleshoot equipment abnormalities based on HMI alarms, electrical drawings, mechanical drawings, and maintenance manuals.
- Handle electrical abnormalities related to control boards, solenoid valves, motors, circuits, sensors, wiring, and connectors.
- Perform standard component replacement, installation, reset, adjustment, and verification.
- Support basic PLC/HMI backup, restore, status check, and fault location under approved procedure.
- Support basic robot operation, homing, simple recovery, TCP check, and status diagnosis under vendor SOP.
- Support basic vision system diagnosis, including camera connection, light source, lens, recipe recovery, and image quality check.
- Perform sensor, fixture, camera, axis, or position calibration based on approved calibration standards.
- Analyze repeated known issues and implement vendor-approved countermeasures.

- Support L3 vendor remote troubleshooting by collecting logs, videos, program status, alarm history, and machine data.
- Maintain maintenance records, spare parts usage, downtime data, root cause notes, and corrective actions.
- Train and guide L1 technicians on checklist execution, issue recording, and basic recovery.
- Follow EHS, machine safety, and workshop requirements.

### **Education and work experience**

- Associate degree or above in automation, electrical engineering, mechanical engineering, mechatronics, industrial maintenance, robotics, or related field.
- 3+ years of experience in automated equipment maintenance, industrial automation, robotics, vision system, or manufacturing equipment support.
- Hands-on troubleshooting experience with electrical, mechanical, pneumatic, sensor, motor, and control system issues.
- Basic experience with PLC/HMI, robot, vision, IPC, or motion control systems.
- Able to read electrical and mechanical drawings.
- Able to work in shifts and support overtime, weekend, or emergency response when required.
- Experience with KUKA, Keyence, Luster, Beckhoff, Siemens, Mitsubishi, Rockwell, EPLAN, AutoCAD, or automated assembly equipment is preferred.
- Experience in electronics manufacturing, precision assembly, battery, automotive, semiconductor, or high-volume automation manufacturing is preferred.

### **Skills**

- Electrical troubleshooting. Able to read electrical drawings and locate fault points related to wiring, sensors, solenoids, motors, I/O, and control boards.
- Mechanical troubleshooting. Able to inspect and adjust mechanical modules, fixtures, precision components, transmission parts, and alignment issues.
- PLC / HMI basic diagnosis. Able to check PLC/HMI status, backup/restore files, read basic I/O and alarm status, but not modify core logic without approval.
- Robot basic support. Able to perform basic robot status check, homing, TCP check, simple recovery, and assist vendor with robot debugging.
- Vision basic support. Able to check camera, lens, lighting, recipe, image capture, and basic inspection abnormality.
- Calibration. Able to perform calibration according to SOP and golden sample / reference standard
- Preventive maintenance. Able to plan and execute PM based on component service life, PM checklist, and equipment log.
- Cross-system issue support. Able to support issue diagnosis across PLC, robot, vision, IPC, MES, and communication systems under vendor guidance.
- Data and documentation. Able to record downtime, MTTR, issue history, spare parts usage, and corrective actions.
- Safety. Able to follow LOTO, risk assessment, EHS, and machine safety requirements.

### **Tools/ Software**

- HMI alarm list. Alarm diagnosis and issue classification.
- Electrical drawings / EPLAN / AutoCAD Viewer. Electrical troubleshooting.
- Mechanical drawings. Component replacement and mechanical adjustment.
- Multimeter / torque tools. Electrical check and mechanical assembly control.
- PLC software. Basic status check, backup, restore, I/O confirmation.
- Beckhoff TwinCAT / Siemens TIA Portal / Mitsubishi GX Works / Rockwell Studio 5000. Depending on equipment platform.
- Robot software / teach pendant. Basic robot operation and recovery.
- Vision software. Camera, lighting, recipe, image diagnosis.

- IPC file backup tool. File backup, restore, and system recovery.
- SFC logs / equipment logs. Production and equipment issue correlation.
- SharePoint / Excel/ PPT. Maintenance record and issue tracking.
- Safety checklist/ LOTO checklist. Safe maintenance execution

**Working conditions**

- This role is primarily based in a fast-paced, high-volume manufacturing facility, requiring daily presence on the production floor to control product yield/quality.
- May require occasional weekend hours to support production deadlines, emergency repairs, or project implementations.